



ELECTRONIC TUBE REFERENCE

ACT28

Power - Triode (over 1000V 100W) electronic tube

CONSOLIDATED TECHNICAL DATA
1 SECTION
CONSTRUCTION
TRIODE

Forced-air-cooled disc-seal triode for pulsed UHF oscillator service in common-grid coaxial circuits to approximately 400 MHz.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	16 V / 7.3 A	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Triode	
TRANSCONDUCTANCE	0.05 S
MAXIMUM PLATE VOLTAGE	11000 V
MAXIMUM PLATE DISSIPATION	1500 W
Published maximum ratings and characteristics audited; remaining useful numerical data retained in TUBE_SECTION_PARAMETER.	

The ACT28 is a forced-air-cooled disc-seal triode for pulsed UHF oscillator service in common-grid coaxial circuits at frequencies up to about 400 MHz.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1955 Marconi

Published test conditions and operating points. Values on this page are preserved as reported by this source.

1955 MARCONI

Section 1 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
General. The ACT2 [1]	8	General. The ACT28 is a forced-air-cooled disc seal 85236" JJ
General. The ACT2 [2]	85236	General. The ACT28 is a forced-air-cooled disc seal 85236" JJ
common grid co-axial circuits at frequencies up to K [1]	3	common grid co-axial circuits at frequencies up to K - 3 ON 4-25"
common grid co-axial circuits at frequencies up to K [2]	4	common grid co-axial circuits at frequencies up to K - 3 ON 4-25"
common grid co-axial circuits at frequencies up to K [3]	-25	common grid co-axial circuits at frequencies up to K - 3 ON 4-25"
Cooling. The flow of air to the anode should be [1]	2	Cooling. The flow of air to the anode should be 2-128'
Cooling. The flow of air to the anode should be [2]	-128	Cooling. The flow of air to the anode should be 2-128'
All cooling supplies must be in operation before [1]	10	All cooling supplies must be in operation before 10-063 '
All cooling supplies must be in operation before [2]	-63	All cooling supplies must be in operation before 10-063 '
applying any voltage to the valve and should continue o J g	373 V	applying any voltage to the valve and should continue o J g 0373..
voltages	4125 V	voltages. 04125 '
four minutes before the application of the anode	0.875	four minutes before the application of the anode . 0.875"
voltage. t0	-2 V	voltage. t0-02d

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
The holes in the grid ring are provided for cooling *	40	The holes in the grid ring are provided for cooling *.040'
Inside diameter of anode line [1]	4	Inside diameter of anode line 4:75 in. yZ3 45
Inside diameter of anode line [2]	75	Inside diameter of anode line 4:75 in. yZ3 45
Inside diameter of anode line [3]	45	Inside diameter of anode line 4:75 in. yZ3 45
Outside diameter of grid line	4	Outside diameter of grid line 4 in.
Va (pulse) (max.)	11	Va (pulse) (max.) 11 kv
Frequency [1]	200 MHz	Frequency 200 400 400 600 Mc/s.
Frequency [2]	400 MHz	Frequency 200 400 400 600 Mc/s.
Frequency [3]	400 MHz	Frequency 200 400 400 600 Mc/s.
Frequency [4]	600 MHz	Frequency 200 400 400 600 Mc/s.
Line length [1]	34	Line length 34 14 46 375 cm. Ia (av) (during pulse) {max.) 50
Line length [2]	14	Line length 34 14 46 375 cm. Ia (av) (during pulse) {max.) 50
Line length [3]	46	Line length 34 14 46 375 cm. Ia (av) (during pulse) {max.) 50
Line length [4]	375	Line length 34 14 46 375 cm. Ia (av) (during pulse) {max.) 50
Line length [5]	50	Line length 34 14 46 375 cm. Ia (av) (during pulse) {max.) 50
Mode M4 A4 [1]	3	Mode M4 A4 3A/4 3N/4 t pulse (max.) s
Mode M4 A4 [2]	4	Mode M4 A4 3A/4 3N/4 t pulse (max.) s
Mode M4 A4 [3]	3	Mode M4 A4 3A/4 3N/4 t pulse (max.) s
Mode M4 A4 [4]	4	Mode M4 A4 3A/4 3N/4 t pulse (max.) s
Heater Ca_g	28	Heater Ca_g 28